



*Real Time Processor*  
*CSCI*  
*Top Level Design*

*Section 3*

*NSWCDD*

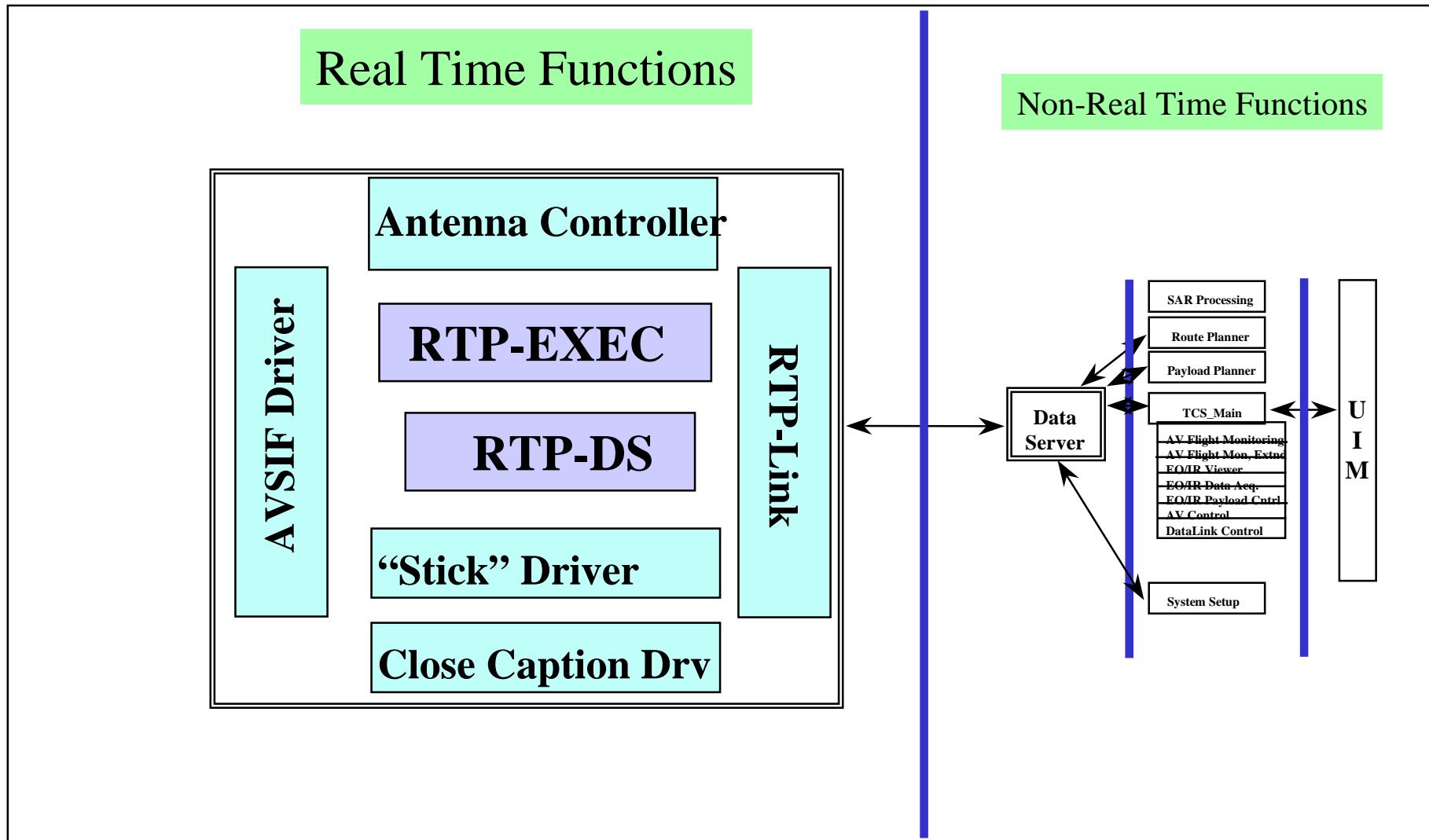


# Real Time Process (RTP) CSCI

- Description
  - Provides for real-time interfaces with:
    - Datalink Control Module (DCM) via AVSI IDD
    - Joystick
    - Antenna Pedestal Controller
  - Provides for closed captioning of NTSC live video
- Design Considerations
  - Need for local Data Server (DS):
    - Isolated network from TCS
    - Synchronize the AVSI message traffic with TCS
    - Log the AVSI message traffic



# RTP-CSCs





# RTP CSC Description

- AVSIF CSC
  - Implements the real-time interface with the DCM to receive, transmit, and interpret data from the AV
- Joystick CSC
  - Implements the real-time interface with the Joystick to provide “stick” data for AV and Payload commands
- Antenna Pedestal CSC
  - Implements the real-time interface with the Antenna Pedestal Controller to point the Antenna



# RTP CSC Description (cont.)

- Closed Caption CSC
  - Implements closed captioning of NTSC live video
- RTP-DS CSC
  - Local DS running on the RTP Hardware
- RTP-Exec CSC
  - Startup and shutdown CSCs running on RTP Hardware
- RTP-Link CSC
  - Synchronize message traffic between the RTP-DS and the TCS-DS